



What is Claimed:

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1.	A computer program product for enabling television ("TV") commerce to generate
additio	nal revenue streams, said program product embodied on computer readable media
readab	le by one or more computing systems in an interactive television environment having a
conne	tion to a computer network and comprising:

computer-readable program code means for initiating a TV commerce purchase by a consumer;

computer-readable program code means for gathering TV context information related to said purchase; and

computer-readable program code means for including said gathered context information in a payment message corresponding to said purchase.

2. The computer program product according to Claim 1, further comprising:

computer-readable program code means, responsive to said computer-readable program code means for initiating, for sending a purchase request for said purchase from said consumer to a computer in said interactive television environment;

computer-readable program code means for receiving said purchase request at said computer;

computer-readable program code means for forwarding said purchase request from said computer to a merchant connected to said interactive television environment;

computer-readable program code means for receiving said forwarded purchase request at said merchant;

computer-readable program code means for sending a payment initiation message for said purchase, responsive to said computer-readable program code means for receiving said

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13	forwarded purchase requirements and merchant to said consumer through said interactive
14	television environment;
15	computer-readable program code means for receiving said sent payment initiation
16	message by said consumer;
17	computer-readable program code means for augmenting said received payment initiation
18	message with said gathered TV context information, thereby creating said payment message
19	corresponding to said purchase;
20	computer-readable program code means for forwarding said payment message to an
210	issuing bank;
25 25 25 20 20 20	computer-readable program code means for receiving said forwarded payment message at
2 3	said issuing bank;
24	computer-readable program code means operable at said issuing bank, responsive to said
25	computer-readable program code means for receiving said forwarded payment message, for
26	creating an authorization token for said purchase;
户 2九 1 2条 近 295	computer-readable program code means for sending said authorization token and said TV
284 =	context information from said issuing bank to said consumer;
29	computer-readable program code means for forwarding said sent authorization token and
30	said TV context information from said consumer to said merchant;
31	computer-readable program code means for receiving said forwarded authorization token
32	and said TV context information at said merchant;
33	computer-readable program code means for sending, responsive to said computer-
34	readable program code means for receiving said forwarded authorization token and said TV
35	context information, a capture request from said merchant to an acquiring bank, along with said
36	received authorization token and said received TV context information;

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authorization token, and said received TV context information at said acquiring bank; and computer-readable program code means for charging, responsive to said computer-readable program code means for charging, responsive to said computer-readable program code means for receiving said capture request, said received authorization token, and said received TV context information, an account of said consumer for said purchase.

- 3. The computer program product according to Claim 2, wherein said TV context information is included as a part of said authorization token.
- 4. The computer program product according to Claim 2, wherein said payment initiation message is a wallet initiation message and wherein said gathered TV context information augments said received wallet initiation message, thereby creating said payment message corresponding to said purchase, and further comprising

computer-readable program code means for invoking a wallet program upon receipt of said sent payment initiation message by said consumer;

computer-readable program code means for logging on to said wallet program by said consumer, thereby creating consumer log-on data; and

computer-readable program code means for including said consumer log-on data when said payment message is forwarded to said issuing bank.

5. The computer program product according to Claim 2, wherein said payment initiation message is digitally signed by said merchant using a digital certificate of said merchant and said authorization token is digitally signed by said issuing bank using an issuing bank digital certificate, and further comprising:

RSW9-99-080

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computer-reade gram code	means for verifying said digitally signed payment
initiation message using said digital cert	Aficate of said merchant; and

computer-readable program code means for verifying said digitally signed authorization sing said issuing bank digital certificate.

- The computer program product according to Claim 1, further comprising:
- computer-readable program code means\for using said included context information for g a portion of a payment represented by said payment message to one or more TV ors.
- The computer program product according to Claim 6, wherein said computer-readable code means for using said included context information further comprises:

computer-readable program code means for extracting an identification of each of said nore TV originators from said included context information; and

computer-readable program code means for allocating a predetermined percent of said payment to each of said identified TV originators.

- The computer program product according to Claim 7, further comprising computer-8. readable program code means for sending said included context information from said acquiring bank to at least one of said one or more identified TV originators.
- 9. The computer program product according to Claim 2, further comprising:
- computer-readable program code means for authenticating said consumer by digitally signing said payment message by said consumer using a consumer digital certificate; and

4	computer-reada pagram code means for verifying said digitally signed payment
5	message using said consumer digital certificate.
1	10. The computer program product according to Claim 2, further comprising computer-
2	readable program code means for using a shared key known to said consumer and said issuing
3	bank to authenticate said consumer.
1	11. The computer program product according to Claim 1, further comprising:

computer-readable program code means, responsive to said computer-readable program code means for initiating, for sending a purchase request for said purchase from said consumer to a computer in said interactive television environment;

computer-readable program code means for receiving said purchase request at said computer;

computer-readable program code means for forwarding said purchase request from said computer to a merchant connected to said interactive television environment;

computer-readable program code means for receiving said forwarded purchase request at said merchant;

computer-readable program code means for sending a payment initiation message for said purchase, responsive to said computer-readable program code means for receiving said forwarded purchase request, from said merchant to said consumer through said interactive television environment;

computer-readable program code means for receiving said sent payment initiation message by said consumer;

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computer-reada program code means for augmenting said received payment initiation message with said gathered TV context information, thereby creating said payment message corresponding to said purchase;

computer-readable program code means for returning said payment message to said merchant;

computer-readable program code means for forwarding said returned payment message from said merchant to a card company or bank;

computer-readable program code means for charging, responsive to said computer-readable program code means for receiving said forwarded payment message, an account of said consumer for said purchase; and

computer-readable program code means for paying said merchant for said purchase.

12. The computer program product according to Claim 11, wherein said payment initiation message is a wallet initiation message and wherein said gathered TV context information augments said received wallet initiation message, thereby creating said payment message corresponding to said purchase, and further comprising

computer-readable program code means for invoking a wallet program upon receipt of said sent payment initiation message by said consumer;

computer-readable program code means for logging on to said wallet program by said consumer, thereby creating consumer log-on data; and

computer-readable program code means for including said consumer log-on data when said payment message is forwarded to said merchant.

13. The computer program product according to Claim 11, wherein said payment initiation message is digitally signed by said merchant using a digital certificate of said merchant, and

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further compris	sing con	eadable program	code means	for venifying s	aid digitally s	igned
payment initiat	ion message us	ing said digital co	ertificate of sa	aid merchant.		

- 14. The computer program product according to Claim 11, further comprising:

 computer-readable program code means for using said included context information for allocating a portion of a payment represented by said payment message to one or more TV originators.
- 15. The computer program product according to Claim 14, wherein said computer-readable program code means for using said included context information further comprises:

computer-readable program code means for extracting an identification of each of said one or more TV originators from said included context information; and

computer-readable program code means for allocating a predetermined percent of said payment to each of said identified TV originators.

- 16. The computer program product according to Claim 15, further comprising computer-readable program code means for sending said included context information from said card company or bank to at least one of said one or more identified TV originators.
- 17. The computer program product according to Claim 11, further comprising:

 computer-readable program code means for authenticating said consumer by digitally signing said payment message by said consumer using a consumer digital certificate; and computer-readable program code means for verifying said digitally signed payment message using said consumer digital certificate.

RSW9-99-080

1	18.	The computer product according to Claim 11, further comprising computer-
2	readab	le program code means for using a shared key known to said consumer and said issuing
3	bank to	o authenticate said consumer.
1	19.	The computer program product according to Claim 1, further comprising:
2		computer-readable program code means for initiating a payment transaction by said
3	consur	mer;
4 ~		computer-readable program code means for gathering TV context information related to
50 X.	said pa	ayment transaction; and
		computer-readable program code means for including said gathered TV context
	inform	nation in a message corresponding to said payment transaction.
	20.	A system for enabling television ("TV") dommerce to generate additional revenue
2	stream	s in an interactive television environment, said environment having a connection to a
	compu	ter network and said system comprising:
1 <u>1</u>		means for initiating a TV commerce purchase by a consumer;
		means for gathering TV context information related to said purchase; and
6		means for including said gathered context information in a payment message
7	corresp	ponding to said purchase.
l	21.	The system according to Claim 20, further comprising:
2		means, responsive to said means for initiating, for sending a purchase request for said
3	purcha	se from said consumer to a computer in said interactive television environment;
4		means for receiving said purchase request at said computer;

to

5	means for forw. aid purchase request from said computer to a merchant connected
6	to said interactive television environment;
7	means for receiving said forwarded purchase request at said merchant;
8	means for sending a payment initiation message for said purchase, responsive to said
9	means for receiving said forwarded purchase request, from said merchant to said consumer
10	through said interactive television environment;
11 _	means for receiving said sent payment initiation message by said consumer;
12 6	means for augmenting said received payment initiation message with said gathered TV
12 h	context information, thereby creating said payment message corresponding to said purchase;
	means for forwarding said payment message to an issuing bank;
Š	means for receiving said forwarded payment message at said issuing bank;
l É	means operable at said issuing bank, responsive to said means for receiving said
	forwarded payment message, for creating an authorization token for said purchase;
18 :.	means for sending said authorization token and said TV context information from said
= [9]	issuing bank to said consumer;
1 <u>0</u> 2 <u>0</u>	means for forwarding said sent authorization token and said TV context information from
型 2上	said consumer to said merchant;
22	means for receiving said forwarded authorization token and said TV context information
23	at said merchant;
24	means for sending, responsive to said means for receiving said forwarded authorization
25	token and said TV context information, a capture request from said merchant to an acquiring
26	bank, along with said received authorization token and said received TV context information;
27	means for receiving said capture request, said received authorization token, and said
28	received TV context information at said acquiring bank; and
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means for charged, responsive to said means for receiving said capture request, said received authorization token, and said received TV context information, an account of said consumer for said purchase.

- 22. The system according to Claim 21, wherein said TV context information is included as a part of said authorization token.
 - 23. The system according to Claim 21, wherein said payment initiation message is a wallet initiation message and wherein said gathered TV context information augments said received wallet initiation message, thereby creating said payment message corresponding to said purchase, and further comprising:

means for invoking a wallet program upon receipt of said sent payment initiation message by said consumer;

means for logging on to said wallet program by said consumer, thereby creating consumer log-on data; and

means for including said consumer log-on data when said payment message is forwarded to said issuing bank.

- 24. The system according to Claim 21, wherein said payment initiation message is digitally signed by said merchant using a digital certificate of said merchant and said authorization token is digitally signed by said issuing bank using an issuing bank digital certificate, and further comprising:
- means for verifying said digitally signed payment initiation message using said digital certificate of said merchant; and

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means	for veril	l digitally signe	d authorization t	oken using said	issuing bank
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digital certifid	ate.				

- 25. The system according to Claim 20, further comprising:
- means for using said included context information for allocating a portion of a payment represented by said payment message to one or more TV originators.
- 26. The system according to Claim 25, wherein said means for using said included context information further comprises:

means for extracting an identification of each of said one or more TV originators from said included context information; and

means for allocating a predetermined percent of said payment to each of said identified TV originators.

- 27. The system according to Claim 26, further comprising means for sending said included context information from said acquiring bank to at least one of said one or more identified TV originators.
- 28. The system according to Claim 21, further comprising:
- means for authenticating said consumer by digitally signing said payment message by said consumer using a consumer digital certificate; and
- means for verifying said digitally signed payment message using said consumer digital certificate.

1	29.	The system accounting to Claim 21, further comprising means for using a shared key
2	known	to said consumer and said issuing bank to authenticate said consumer.
1	30.	The system according to Claim 20, further comprising:
2		means, responsive to said means for initiating, for sending a purchase request for said
3	purcha	se from said consumer to a computer in said interactive television environment;
4		means for receiving said purchase request at said computer;
5		means for forwarding said purchase request from said computer to a merchant connected
6	to said	interactive television environment;
Z B	(means for receiving aid forwarded purchase request at said merchant;
	./	means for sending a payment initiation message for said purchase, responsive to said
91	means	for receiving said forwarded purchase request, from said merchant to said consumer
10	throug	h said interactive television environment;
l la		means for receiving said sent payment initiation message by said consumer;
12 ₁		means for augmenting said received payment initiation message with said gathered TV
13	contex	t information, thereby creating said payment message corresponding to said purchase;
14 <u>0</u>		means for returning said payment message to said merchant;
15		means for forwarding said returned payment message from said merchant to a card
16	compa	ny or bank;
17		means for charging, responsive to said means for receiving said forwarded payment
18	messa	ge, an account of said consumer for said purchase; and
19		means for paying said merchant for said purchase.
1	31.	The system according to Claim 30, wherein said payment initiation message is a wallet
2	initiati	on message and wherein said gathered TV context information augments said received

5		means for invoking a wallet program upon receipt of said sent payment initiation message			
6	by said consumer;				
7		means for logging on to said wallet program by said consumer, thereby creating			
8	consur	mer log-on data; and			
9		means for including said consumer log-on data when said payment message is forwarded			
80	to said	merchant.			
	32.	The system according to Claim 30, wherein said payment initiation message is digitally			
2 _年	signed	by said merchant using a digital certificate of said merchant, and further comprising			
可 3 _迈	means	for verifying said digitally signed payment initiation message using said digital certificate			
	of said	merchant.			
	33.	The system according to Claim 30, further comprising: means for using said included context information for allocating a portion of a payment			
3 <u>0</u>	represe	ented by said payment message to one or more TV originators.			
1	34.	The system according to Claim 33, wherein said means for using said included context			
2	inform	ation further comprises:			
3		means for extracting an identification of each of said one or more TV originators from			
4	said in	cluded context information; and			
5		means for allocating a predetermined percent of said normant to each of said identified			

wallet initiation message, in eby creating said payment message corresponding to said purchase,

RSW9-99-080

TV originators.

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and further comprising:

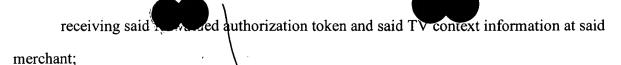
1	33.	The system accurating to Claim 34, further comprising means for sending said included		
2	contex	context information from said card company or bank to at least one of said one or more identified		
3	TV ori	ginators.		
1	36.	The system according to Claim 30, further comprising:		
2		means for authenticating said consumer by digitally signing said payment message by		
3	said co	said consumer using a consumer digital certificate; and		
4		means for verifying said digitally signed payment message using said consumer digital		
5 RD.	Certific	cate.		
厚	37.	The system according to Claim 30, further comprising means for using a shared key		
	known	to said consumer and said issuing bank to authenticate said consumer.		
م ا _ي	38.	The system according to Claim 20, further comprising:		
2 <mark>FU</mark>		means for initiating a payment transaction by said consumer;		
3 ^[]]		means for gathering TV context information related to said payment transaction; and		
4 <u>0</u>		means for including said gathered TV context information in a message corresponding to		
5	said pa	lyment transaction.		
1	39.	A method for enabling television ("TV") commerce to generate additional revenue		
2	stream	s in an interactive television environment, said environment having a connection to a		
3	compu	ter network and said method comprising the steps of:		
4		initiating a TV commerce purchase by a consumer;		

gathering TV context information related to said purchase; and

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6	including said context information in a payment message corresponding to said
7	purchase.
1	40. The method according to Claim 39, further comprising the steps of:
2	sending, responsive to said initiating step, a purchase request for said purchase from said
3	consumer to a computer in said interactive television environment;
4	receiving said purchase request at said computer;
5	forwarding said purchase request from said computer to a merchant connected to said
(6,00x)	interactive television environment;
	receiving said forwarded purchase request at said merchant;
	sending a payment initiation message for said purchase, responsive to said step of
بِ ا	receiving said forwarded purchase request, from said merchant to said consumer through said
10	interactive television environment;
14	receiving said sent payment initiation message by said consumer;
12J TU	augmenting said received payment initiation message with said gathered TV context
13≟	information, thereby creating said payment message corresponding to said purchase;
点 1套	forwarding said payment message to an issuing bank;
15	receiving said forwarded payment message at said issuing bank;
16	creating at said issuing bank, responsive to said step of receiving said forwarded payment
17	message, an authorization token for said purchase;
18	sending said authorization token and said TV context information from said issuing bank
19	to said consumer;
20	forwarding said sent authorization token and said TV context information from said
21	consumer to said merchant;

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sending, responsive to said step of receiving said forwarded authorization token and said TV context information, a capture request from said merchant to an acquiring bank, along with said received authorization token and said received TV context information;

receiving said capture request, said received authorization token, and said received TV context information at said acquiring bank; and

charging, responsive to said step of receiving said capture request, said received authorization token, and said received TV context information, an account of said consumer for said purchase.

- 41. The method according to Claim 40, wherein sald TV context information is included as a part of said authorization token.
- 42. The method according to Claim 40, wherein said payment initiation message is a wallet initiation message and wherein said gathered TV context information augments said received wallet initiation message, thereby creating said payment message corresponding to said purchase, and further comprising the steps of:

invoking a wallet program upon receipt of said sent payment initiation message by said consumer;

logging on to said wallet program by said consumer, thereby creating consumer log-on data; and

including said consumer log-on data when said payment message is forwarded to said issuing bank.

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The method according to Claim 40, wherein said payment initiation message is digitally
signed by said merchant using a digital certificate of said merchant and said authorization toke
is digitally signed by said issuing bank using an issuing bank digital certificate, and further
comprising the steps of:

verifying said digitally signed payment initiation message using said digital certificate of said merchant; and

verifying said digitally signed authorization token using said issuing bank digital certificate.

44. The method according to Claim 39, further comprising the step of:
using said included context information for allocating a portion of a payment represented
by said payment message to one or more TV originators.

45. The method according to Claim 44, wherein said step of using said included context information further comprises the steps of:

extracting an identification of each of said one or more TV originators from said included context information; and

allocating a predetermined percent of said payment to each of said identified TV originators.

- 46. The method according to Claim 45, further comprising the step of sending said included context information from said acquiring bank to at least one of said one or more identified TV originators.
- 47. The method according to Claim 40, further comprising the steps of:

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3	consumer using a consumer digital certificate; and		
4	verifying said digitally signed payment message using said consumer digital certificate.		
1	48. The method according to Claim 40, further comprising the step of using a shared key		
2	known to said consumer and said issuing bank to authenticate said consumer.		
9			
of 1	49. The method according to Claim 39, further comprising the steps of:		
	sending, responsive to said initiating step, a purchase request for said purchase from said		
9 1	consumer to a computer in said interactive television environment;		
- - -	receiving said purchase request at said computer;		
9	forwarding said purchase request from said computer to a merchant connected to said		
	interactive television environment		
7 	receiving said forwarded purchase request at said merchant;		
	sending a payment initiation message for said purchase, responsive to said step of		
19. Ú	receiving said forwarded purchase request, from said merchant to said consumer through said		
10	interactive television environment;		
11	receiving said sent payment initiation message by said consumer;		
12	augmenting said received payment initiation message with said gathered TV context		
13	information, thereby creating said payment message corresponding to said purchase;		
14	returning said payment message to said merchant;		
15	forwarding said returned payment message from said merchant to a card company or		
16	bank;		
17	charging, responsive to said step of receiving said forwarded payment message, an		
18	account of said consumer for said purchase; and		
	RSW9-99-080 -46-		

authenticating and consumer by digitally signing said payment message by said

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- The method according to Claim 49, wherein said payment initiation message is a wallet initiation message and wherein said gathered TV context information augments said received wallet initiation message, thereby creating said payment message corresponding to said purchase, and further comprising the steps of:
 - invoking a wallet program upon receipt of said sent payment initiation message by said consumer;

logging on to said wallet program by said consumer, thereby creating consumer log-on data; and

including said consumer log-on data when said payment message is forwarded to said merchant.

- 51. The method according to Claim 49, wherein said payment initiation message is digitally signed by said merchant using a digital certificate of said merchant, and further comprising the step of verifying said digitally signed payment initiation message using said digital certificate of said merchant.
- The method according to Claim 49, further comprising the step of:
 using said included context information for allocating a portion of a payment represented
 by said payment message to one or more TV originators.
- 1 53. The method according to Claim 52, wherein said step of using said included context information further comprises the steps of:

3		extracting an ideach of each of said one or more IV originators from said included
4	contex	at information; and
5		allocating a predetermined percent of said payment to each of said identified TV
6	origin	ators.
1	54.	The method according to Claim 53, further comprising the step of sending said included
2	contex	at information from said card company or bank to at least one of said one or more identified
388 (TV or	iginators.
	55.	The method according to Claim 49, further comprising the steps of:
2年		authenticating said consumer by digitally signing said payment message by said
3 <u>1</u>	consu	mer using a consumer digital certificate; and
		verifying said digitally signed payment message using said consumer digital certificate.
FI FI	56.	The method according to Claim 49 further comprising the step of using a shared key
24 0 0	knowi	n to said consumer and said issuing bank to authenticate said consumer.
1	57.	The method according to Claim 39, further comprising the steps of:
2		initiating a payment transaction by said consumer;
3		gathering TV context information related to said payment transaction; and
4		including said gathered TV context information in a message corresponding to said
5	payme	ent transaction.